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# Ir1 EDF I&T Process Overview

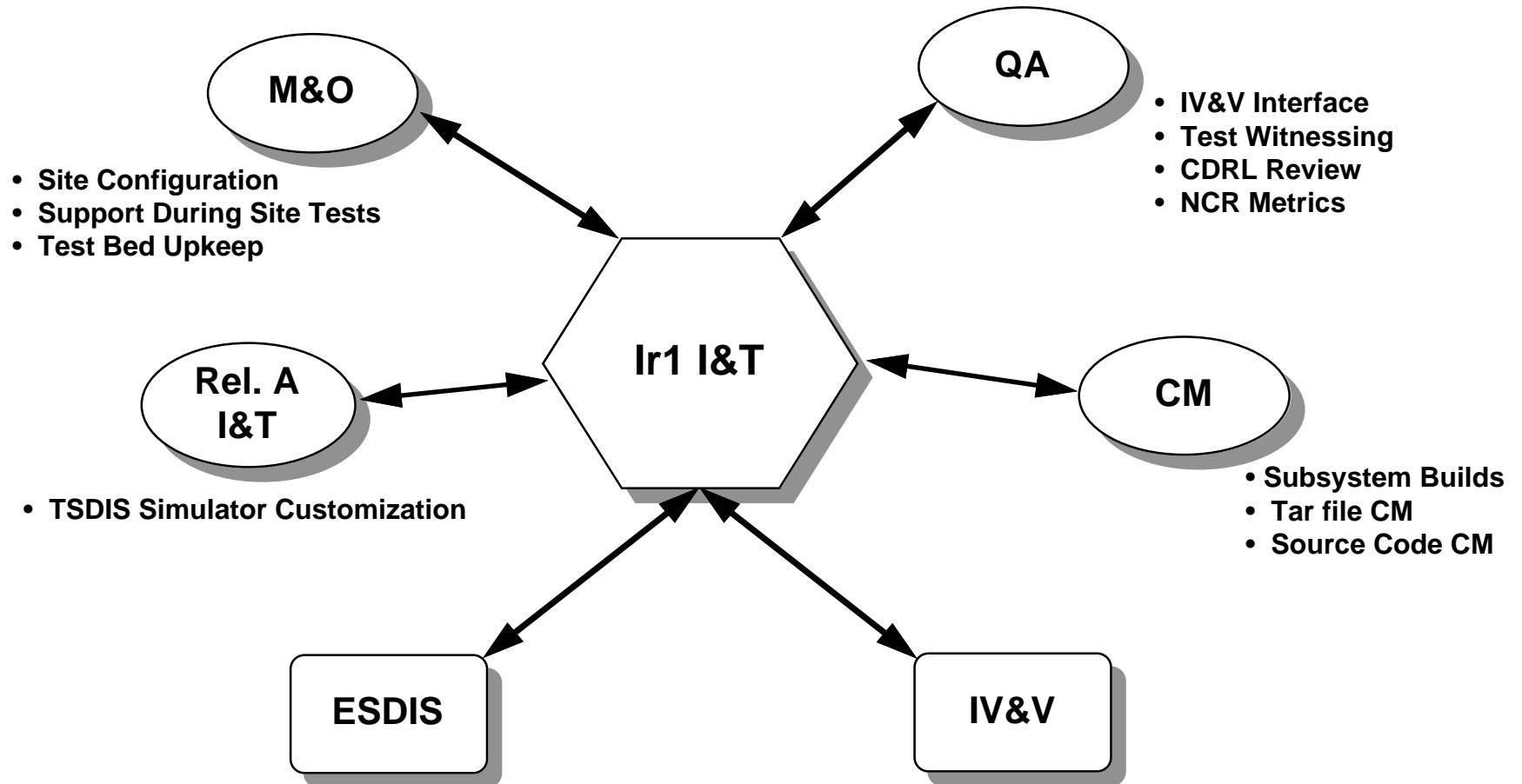
**Gil Tadmor**

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**31 January 1996**

# Ir1 I&T Interactions



# Ir1 I&T CDRLs

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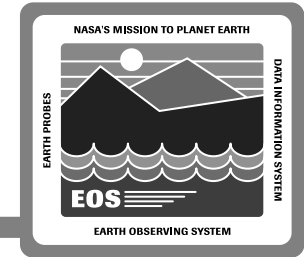


- **DID 322/414 Ir1 Test Plans and Procedures (12/7/95 FINAL)**
- **DID 324/405 Ir1 Test Report (by end of January 96)**
  - **will include site test results**
  - **will capture deviations and updates to procedures from Final 322/414**
  - **see outline below**

# **Ir1 Test Report DID 324/405**

## **Table of Contents**

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### **1.0 Introduction**

### **2.0 Related Documentation**

### **3.0 Ir1 Integration and Test Results**

#### **3.1 Thread/Build Name**

##### **3.1.1 Test Case Name (TC\_ID)**

##### **3.1.1.1 Test Summary**

- objectives (Overall/Met/Unmet)**

##### **3.1.1.2 Deviations (if applicable)**

- redlined procedures accompanied with rationale/reason for deviation**
- design/concept/configuration/operations changes**
- reasons for not fulfilling test**

# **Ir1 Test Report DID 324/405**

## **Table of Contents (cont.)**

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### **3.1.1.3 Test Results**

- Logs and env script**
- Output Data (files, screen displays, etc.) and/or Event Log dumps**
- Identification of any system behavioral abnormalities**

### **3.1.1.4 Recommendations and Conclusions**

- overall test Pass/Fail analysis and conclusions**
- specify additional tests if required to fulfill objectives (i.e., unsatisfied objectives - if applicable)**
- feature, component or subsystem redesign (if applicable)**
- req't revision(s) (if applicable)**
- change(s) in development or I&T process (if applicable)**

# **Ir1 Test Report DID 324/405**

## **Table of Contents (cont.)**

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### **4.0 Ir1 Site Test Reports**

#### **4.1 GSFC DAAC**

#### **4.2 LaRC DAAC**

#### **4.3 EDC DAAC**

### **Appendix A. Requirement Verification Status**

### **Appendix B. Misc Charts :**

- CM of tar files**
- req't verification status check-off process**

### **Appendix C. Hardware and COTS Configurations**

### **Appendix D. Summary Test Results Table**

# Ir1 M&O CDRLs

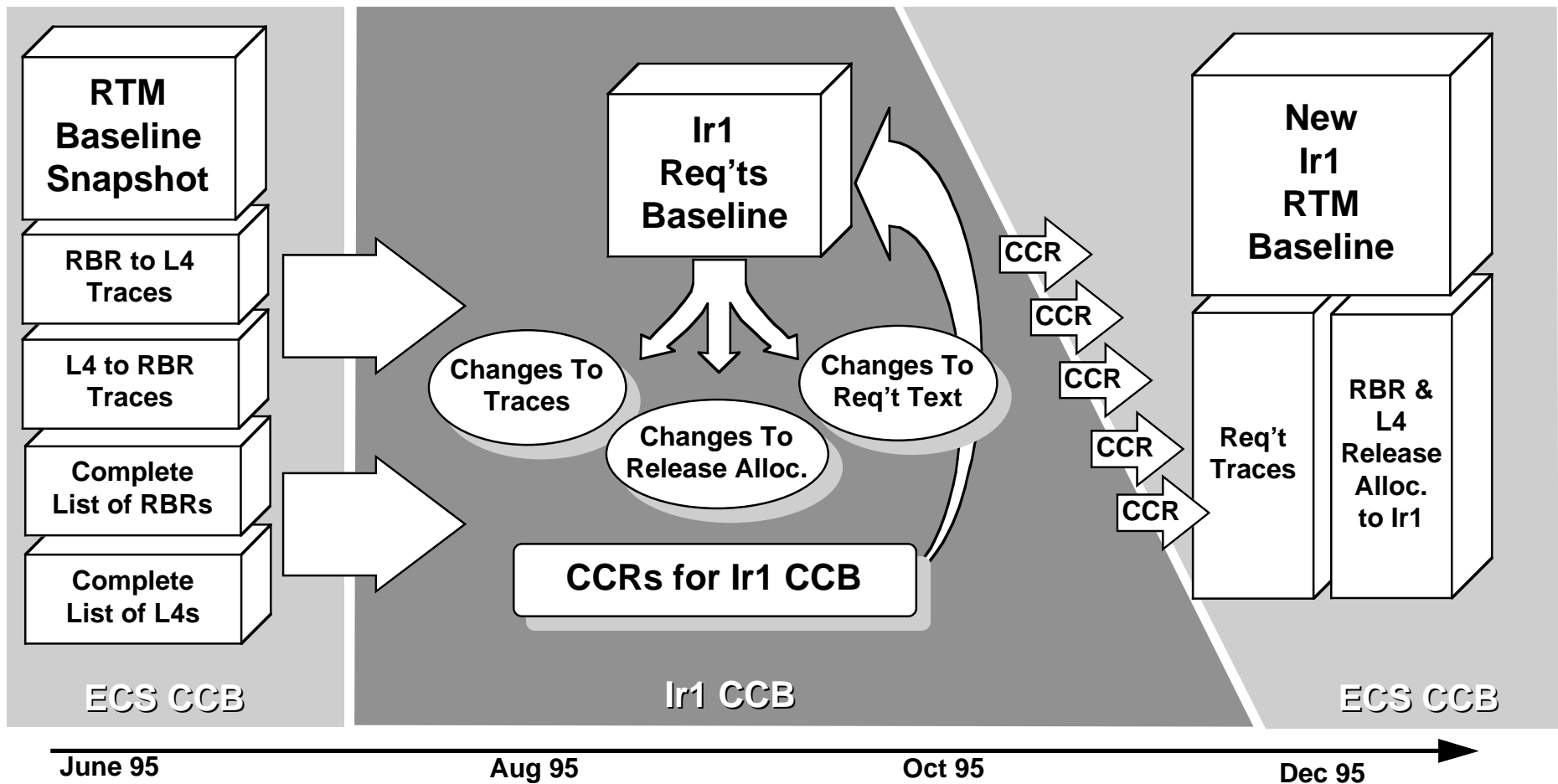
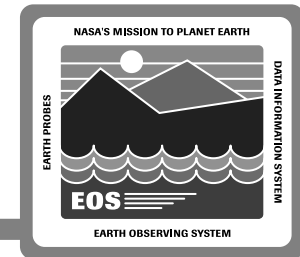


- **DID 609**                      **Maintenance and Ops Procedures**
- **DID 611**                      **Operator's Manuals**

## Other Ir1 Documentation

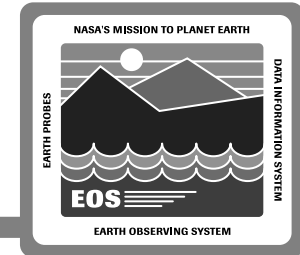
- **Monthly NCR Reports (DID 521)**
- **Ir1 Version Description Document (VDD)**
- **Ir1 Mission Statement**
- **Design Inspections**
- **Code Inspections**
- **Developers Notebooks**
- **Ir1 Installation Plan 800-TP-001-001**
- **Ir1 to A Transition Paper**
- **Training Materials**
- **SSIT Procedures**

# ECS Ir1 Requirements Baseline

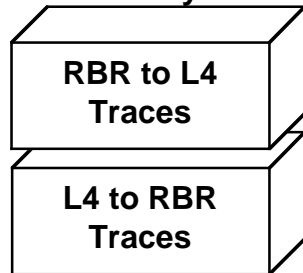




# Ir1 I&T Verification Process

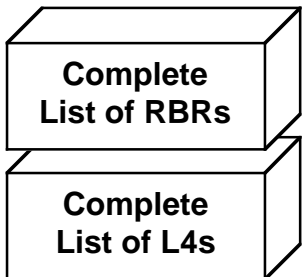


Many-to-Many

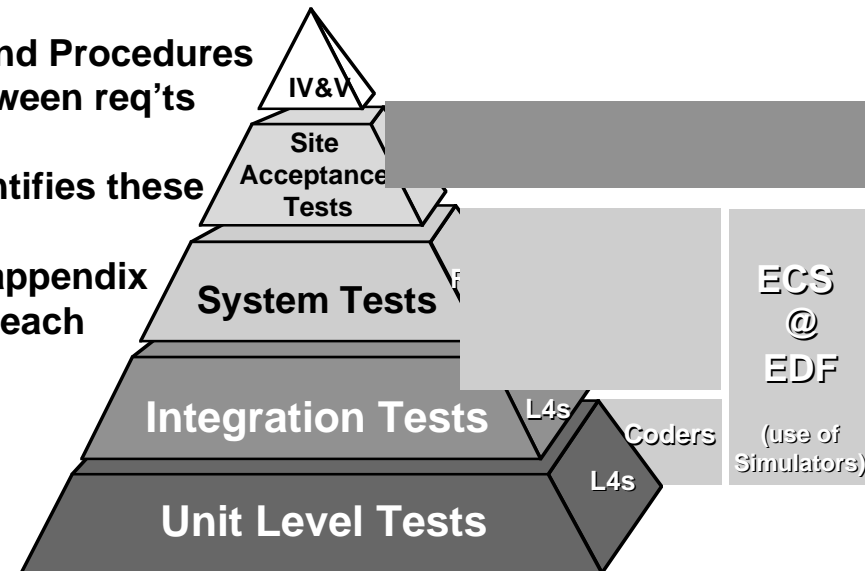


Many-to-Many

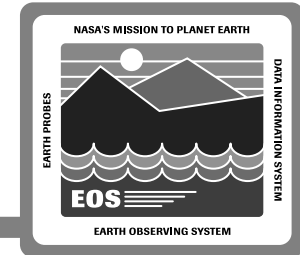
- RTM database represents the Ir1 Req't Baseline as controlled through CCRs that have already been implemented, or that are pending approval / implementation into RTM
- Maintained through Ir1 and ECS CCBs and updated in RTM through ECS CCB
- RBR-L4 Traces have NO impact on the Ir1 Verification Process
- Clarification Text has NO impact on the Ir1 Verification Process



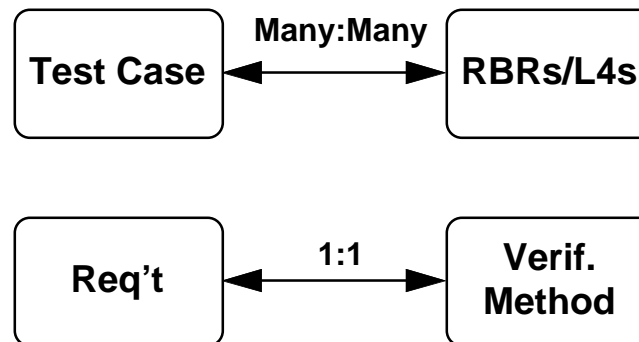
- Maintained through Ir1 CCB
- Used to generate Test Cases and Procedures
- Many-to-Many relationship between req'ts and test cases
- Appendix C in DID 322/414 identifies these mappings
- DID 324/405 will redeliver this appendix with the verification status for each requirement



# Ir1 I&T Verification Process (Cont.)



## DID 322/414 Appendix C



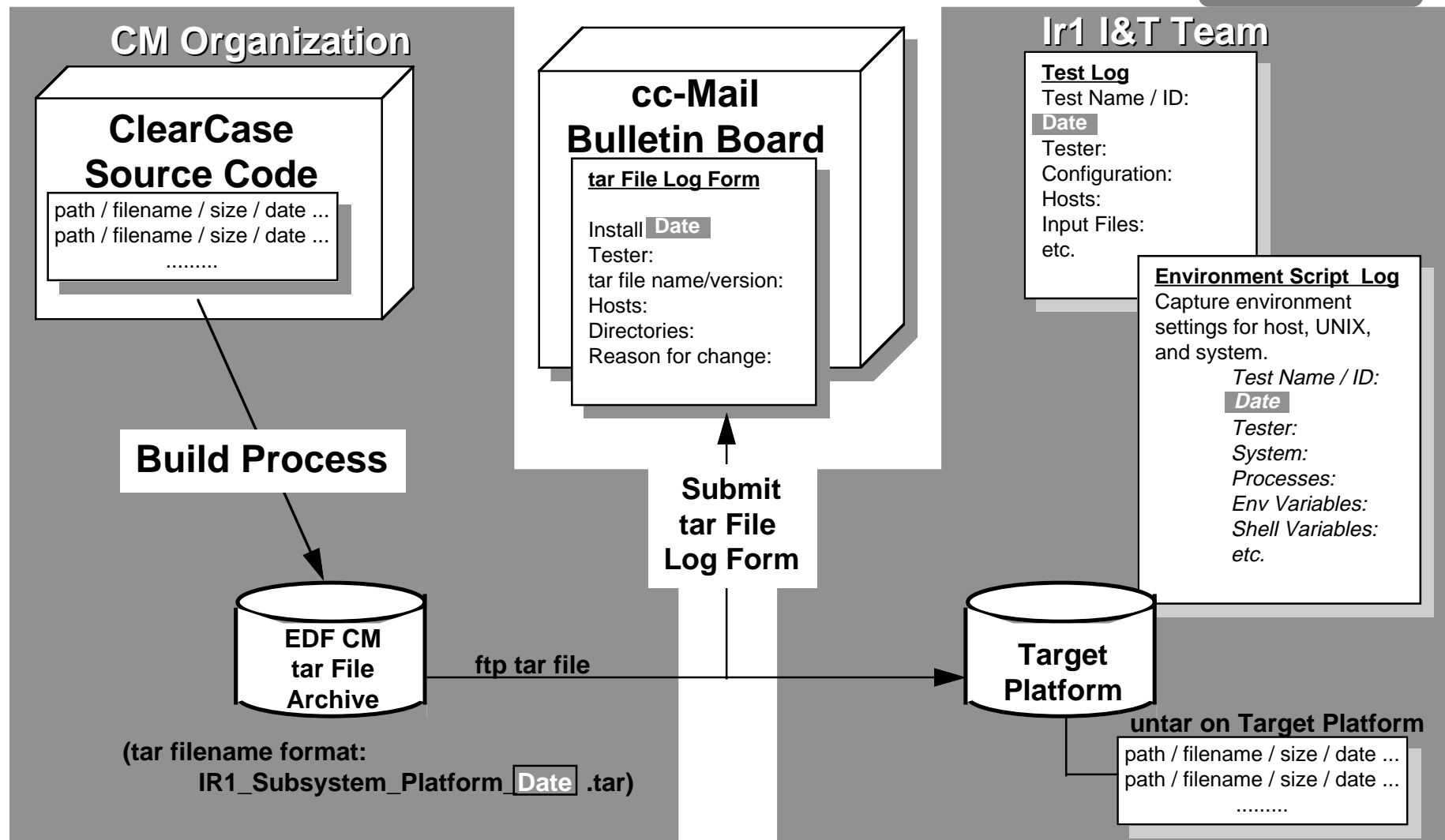
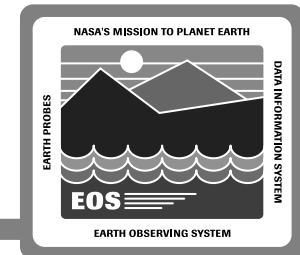
Test_ID	Req't_ID
1	xxx ✓ yyy ✓ zzz ✓

**Step 1:** Run Test #1 and verify req'ts mapped to it.

**Step 2:** Check the reverse mapping and make sure all tests have verified a particular req't before it is labeled as verified (RTM input).

Req't_ID	Verif_Method	text	Test_ID	Verif. Status
xxxx	Test		1 ✓ 2 3	Unverified

# EDF CM During I&T (pre-CSR)



# Ir1 Build/Thread

